

# Work Order ID 104786

July-18-13 10:56:22 AM

\*104786\*

Page 1

Item ID: D4635-143

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Stop \*NS2\*

Item Name: Aft Ceiling Replacement Panel Assembly, LH

Start Date: 7/18/13 Start Qty: 1.00 \*1\*

Cust Item ID:

Required Date: 8/01/13 Req'd Qty: 1.00 \*1\*

Customer:

Reference:

Approvals: Process Plan: MLJ Date: 13-07-18 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start \*NR1\*

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop \*NR2\*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D4635	C

100 0.00

\*100\*

HandThermo

Memo

0.00

Hand Finishing Thermoforming

Pick Kit

Wh  
13/09/10

110 0.00

\*110\*

Small Fab

Memo

0.00

Small Fab

Assemble as per Dwg D4635-143

Wh  
13/09/10

1- Locate and glue down Channel Assy, angles, brackets, and mounting pads using 3M Plastic welder II.

Batch # M124600

Expiry Date 13/10/16

2- Apply labels as per Dwg. and seal with 3M 3950 edge sealer

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other _____ _____ _____
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# Work Order ID 104786

July-18-13 10:56:22 AM

**\*104786\***

Page 2

Item ID: D4635-143

Accept

**\*N900040100\***

Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Aft Ceiling Replacement Panel Assembly, LH

Start Date: 7/18/13 Start Qty: 1.00 **\*1\***

Cust Item ID:

Required Date: 8/01/13 Req'd Qty: 1.00 **\*1\***

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***  
Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 <b>*120*</b> QC Quality Control	QC6- Inspect dimensions to drawing  Memo	0.00 0.00	988 16 DAS	136cm					
130 <b>*130*</b> Packaging Packaging	Identify as per dwg & Stock Location: _____  Memo	0.00 0.00		wo# 105069					Wh. 13/09/16
140 <b>*140*</b> QC Quality Control	QC21- Final Inspection - Work Order Release  Memo	0.00 0.00							MLJ 13-09-18

130917

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



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# Picklist Print

July-18-13 10:56:26 AM

Page 1

Work Order ID: 104786

\*104786\*

Parent Item: D4635-143

\*D4635-143\*

Parent Item Name: Aft Ceiling Replacement Panel Assembly, LH

Start Date: 7/18/13

Required Date: 8/01/13

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev. A New Issue 13/02/05 DL verf:DD  
Dwg Update 12/11/08 DL  
13/07/09 DL verf:DD

IPP Rev. B  
IPP Rev. C Dwg. Update

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4635-3 *D4635-3* Aft Ceiling Panel, LH		Manufactured	No		104721 ✓	100	Each	0.0000	1	1			DA 07/09/10
D4669-1 *D4669-1* Bracket		Manufactured	No			100	Each	8.0000	1	1			13/09/10
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST118		8							DA 07/09/10
				93073		8							13/09/10
D4669-3 *D4669-3* Bracket		Manufactured	No			100	Each	1.0000	1	1			
										**			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST118		1							DA 07/09/10
				93074		1							13/09/10
D4695-3 *D4695-3* Channel		Manufactured	No			100	Each	1.0000	1	1			
										**			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST158		1							DA 07/09/10
				93100		1							13/09/10

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

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### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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# Picklist Print

July-18-13 10:56:26 AM

Work Order ID: 104786

\*104786\*

Parent Item: D4635-143

\*D4635-143\*

Parent Item Name: Aft Ceiling Replacement Panel Assembly, LH

Start Date: 7/18/13

Required Date: 8/01/13

Start Qty: 1.00

Required Qty: 1.00

D4732-1 Manufactured No

100 Each

9.0000 1 1

\*D4732-1\* B

Label

\*\*

## Location

## Loc Qty

## Loc Code

ST120

9

93269 ✓

9

1

DAS  
07  
89  
13/09/10

D4732-13 Manufactured No

100 Each

9.0000 1 1

\*D4732-13\* B

Label

\*\*

## Location

## Loc Qty

## Loc Code

ST120

9

93251 ✓

9

1

DAS  
07  
89  
13/09/10

D4732-37 Manufactured No

100 Each

9.0000 1 1

\*D4732-37\* B

Label

\*\*

## Location

## Loc Qty

## Loc Code

ST120

9

93402 ✓

9

1

DAS  
07  
89  
13/09/10

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

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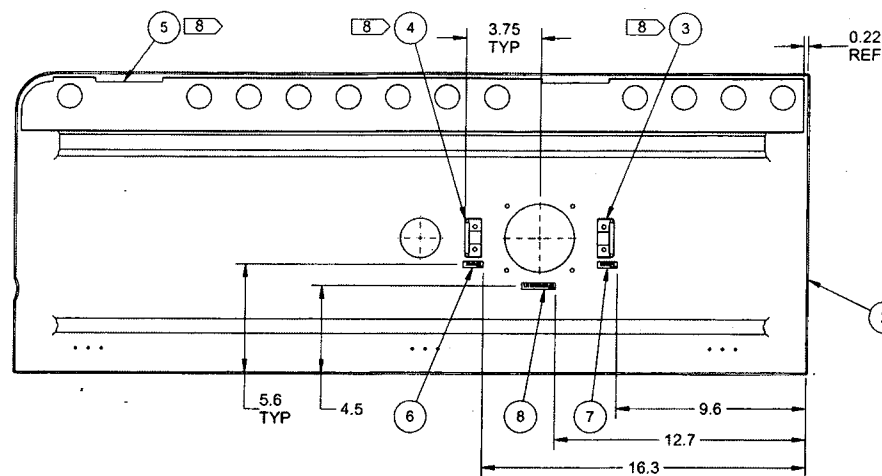
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ITEM NO.	QTY. -143	PART NUMBER	DESCRIPTION
1	X	D4635-143	LH, AFT CEILING REPLACEMENT PANEL ASSY
2	1	D4635-3	LH, AFT CEILING PANEL
3	1	D4669-1	BRACKET
4	1	D4669-3	BRACKET
5	1	D4695-3	CHANNEL
9	1	D4732-1	LABEL
9	1	D4732-13	LABEL
9	1	D4732-37	LABEL



**D4635-143 LH, AFT CEILING REPLACEMENT PANEL ASSY**

**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 4.5 lbs
- 8) APPLY A BEAD (0.20 TO 0.30 WIDE) OF DEVCON PLASTIC WELDER II (0.25 INSIDE OF BOTH EDGES OF PART) TO BOND D4669-1/-3, D4695-3. WAIT FOR 2 TO 4 HOURS FOR FUNCTIONAL CURE
- 9) LOCATE LABELS AS SHOWN, SEAL LABELS USING 3950 EDGE SEALER OVER LABEL TOP SURFACE
- 10) ALIGN THE LONGITUDINAL BEND IN D4695-3 CHANNEL WITH THE BEND ON D4635-3 PANEL & CENTER D4695-3 BETWEEN BOTH ENDS OF D4635-3

SHG  
RETURNED  
ENGINEER  
UNCONTROLLED COPY  
SUBJECT TO APPROVAL  
WITHOUT  
WORK OF  
NO. 104786 MJS  
13-07-18

**RELEASED**  
2013-07-15  
W

DESIGN	RF	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	DC	DRAWING NO.	REV. C
MFG. APPR.	DC	<b>D4635</b>	SHEET 11 OF 18
APPROVED	DC	TITLE	SCALE
DE APPR.	DC	<b>OUTBOARD CEILING PANELS</b>	NTS
DATE	13.06.18	COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	